

CORBA SSL Service with Globus Security Infrastructure in Hierarchical Resource Manager

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Introduction

- **Level one proxy by grid-proxy-init**
- **Level two proxy by delegating credentials through CORBA between client and server**
 - **Globus security context needs to be established**
- **CORBA connection to be secured with SSL service**



Our status

- **Clients use their own user certificate to create the level one proxy**
- **Server uses its own host certificate**
- **Orbacus FSSL plug-in is used**
 - **Globus certificates are used**
- **Level two proxy is created through Orbacus FSSL connection**
- **Current status:**
 - **Client passes user proxy to the server**
 - **Server uses user proxy to gridftp a file**

Tools needed

- **Orbacus 4**
- **FSSL 2**
- **Globus latest with openssl**
- **OpenSSL**
- **certificates**

IDL changes

- **One additional interface:**
 - Typedef sequence<octet> Token
 - long delegation(inout Token send_token,
out Token receive_token)
- **Other interfaces to include additional argument”**
 - In Token proxy
 - e.g. RETURN_STATUS_SET_T release(
in USER_ID_T uid,
in REQUEST_ID_T request_id,
in FIDSET_T fset,
in Token proxy
) raises (HRMException);
or RETURN_STATUS_SET_T release(
in Token proxy, // contains user ID info
in REQUEST_ID_T request_id,
in FIDSET_T fset
) raises (HRMException);